

AMENDMENTS

Please amend the application as follows, without prejudice.

In the Claims (Clean Copy):

1. (Amended) A catheter having a distal end and a wall, the catheter comprising a heat transfer device located approximately at its distal end, wherein the heat transfer device is engaged with the catheter wall.

2. (Amended) A catheter as claimed in Claim 1 wherein the heat transfer device is a flexible film having at least one electrical resistor flow path, which film is locatable around the catheter wall.

3. (Amended) A catheter as claimed in Claim 2 wherein the film is a flexible metal film on which the at least one electrical path has been formed.

4. (Amended) A catheter as claimed in Claim 2 wherein the at least one electrical path is located on a plastic film backing.

5. (Amended) A catheter as claimed in Claim 4 wherein the at least one electrical path is added by a deposition process.

6. (Amended) A catheter as claimed in Claim 4 wherein the at least one electrical path is added by a coating process.

11. (Amended) A catheter as claimed in Claim 10 wherein the printing process uses a conductive medium, with subsequent etching.

12. (Amended) A catheter as claimed in Claim 7 wherein a temperature sensor material is also disposed onto the catheter wall by a deposition process.

13. (Amended) A catheter as claimed in Claim 1 wherein the heat transfer device includes at least one sensing element.
14. (Amended) A catheter as claimed Claim 1 wherein at least one insulator layer is located over the resistor structure.
15. (Amended) A catheter as claimed in Claim 14 wherein the at least one insulator layer is made from parylene C.
16. (Amended) A catheter as claimed in Claim 1 wherein the heat transfer device an outwardly located layer of material selected from a group consisting of silver and gold.
17. (Amended) A catheter as claimed in Claim 1 wherein a length of the outer wall of the catheter is at least partly formed from doped material able to act as a heat transfer device upon application of power therethrough.
18. (Amended) A catheter as claimed in Claim 17 wherein the doped material is selected from a group consisting of silver and gold.
19. (Amended) A catheter having a wall the catheter comprising at least one metal wire located in at least a portion of the wall.
20. (Amended) A catheter as claimed in Claim 19 wherein the at least one wire is copper.
21. (Amended) A catheter as claimed in Claim 19 wherein the at least one wire is co-extruded within the catheter body.
22. (Amended) A catheter as claimed in Claim 19 wherein the catheter wall includes at least one set of wires.

24. (Amended) A catheter as claimed in Claim 19 wherein each wire inside the catheter wall is easily exposable.

a³ 25. (Amended) A catheter as claimed in Claim 1 wherein the catheter wall has at least one metal wire located in at least a portion of the wall.

26. (Amended) A catheter as claimed in Claim 1 wherein the catheter has a diameter of between approximately size 3 to 5 F.

27. (Amended) A catheter as claimed in Claim 1 having a single distal lumen.

28. (Amended) A catheter as claimed in Claim 27 wherein the lumen has a diameter of between approximately 0.5 to 0.7 mm.

REMARKS

Claims 1-28 are currently pending. By means of this preliminary amendment, claims 1-6, 11-22, 24-28 have been amended to eliminate multiple dependencies and address some minor informalities. The changes are shown in the marked-up copy of the claims that follow this amendment. No new matter has been added to the application by means of these amendments.

It is respectfully submitted that the claims presented in this preliminary amendment are patentable over the art cited during international examination.

Applicants request early examination of the application on the merits.

If the Examiner believes that direct communication with the Applicants' attorney would advance the prosecution of this application, the Examiner is invited to telephone the undersigned at the number listed below.